

New Program Report

Date Submitted:

03/30/2021

Institution

Missouri Western State University

Site Information

Implementation Date:

8/1/2021 12:00:00 AM

Added Site(s):

Selected Site(s):

Missouri Western State University, 4525 Downs Drive, St. Joseph, MO, 64507

CIP Information

CIP Code:

510908

CIP Description:

A program that prepares individuals, under the supervision of physicians, to assist in developing respiratory care plans, administer respiratory care procedures, supervise personnel and equipment operation, maintain records, and consult with other health care team members. Includes instruction in the applied basic biomedical sciences; anatomy, physiology, and pathology of the respiratory system; clinical medicine; therapeutic procedures; clinical expressions; data collection and record-keeping; patient communication; equipment operation and maintenance; personnel supervision; and procedures for special population groups.

CIP Program Title:

Respiratory Care Therapy/Therapist

Institution Program Title:

Respiratory Therapy

Degree Level/Type

Degree Level:

Bachelor's Degree

Degree Type:

Bachelor of Science

Options Added:

Collaborative Program:

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Mode of Delivery

Current Mode of Delivery

Classroom

Student Preparation

New Program Report

Special Admissions Procedure or Student Qualifications required:

A minimum overall GPA of 2.5. A Test of Essential Academic Skills (TEAS) test score of 58.7% (academic preparedness category of proficiency) or above is required. Must have completed or be currently enrolled in all general studies. Must complete the following RT support courses earning a grade of C or higher: Medical Terminology, Principles of Bio, Anatomy & Physiology, Medical & Public Health Microbio, Pathophysiology, Intro Chem/Gen Chem, Ethics, Psych, Life Span Dev Psych

Specific Population Characteristics to be served:

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

The Program Director (PD) will meet requirements as outlined in the Commission on Accreditation for Respiratory Care (COARC) Accreditation Standards (2015). Instructional Faculty will be qualified in the content areas that they will teach and will have a minimum of a Master's degree in a related field.

Estimate Percentage of Credit Hours that will be assigned to full time faculty: 95% of credit hours will be assigned to full-time faculty

Expectations for professional activities, special student contact, teaching/learning innovation: One of the primary responsibilities of a faculty member involves effective teaching and student interactions through classroom activities, campus involvement, and advising. With Missouri Western's mission of applied learning, we expect all faculty to integrate applied learning in all aspects of the program with special focus on simulation, skills verification, and clinical experiences. Faculty must be engaged in ongoing scholarship/creative activity and are encouraged to include students.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 6	Part Time: 0	
Year 2	Full Time: 12	Part Time: 0	
Year 3	Full Time: 24	Part Time: 0	Number of Graduates:
Year 4	Full Time: 36	Part Time: 0	- · · · · · · · · · · · · · · · · · · ·
Year 5	Full Time: 48	Part Time: 0	Number of Graduates: 20

Percentage Statement:

88.00

Program Accreditation

Institutional Plans for Accreditation:

We will seek accreditation through the Commission on Accreditation for Respiratory Care. The letter of intent for accreditation will be submitted upon approval by the MO Department of Higher Education and Workforce Development. Program advisory committee members have been identified and a meeting will be scheduled by June 2020. We anticipate provisional accreditation by May 2021. After graduating three cohorts, we will submit application for the first accreditation (2024).

Program Structure

Total Credits:

120

New Program Report

Residency Requirements:

30 of the last 45 hours at MWSU

General Education Total Credits:

42

Major Requirements Total Credits:

78

Course(s) Added

COURSE NUMBER

CREDITS

COURSE TITLE

RES 250

Concepts of Respiratory Therapy

Free Elective Credits:

1

Internship or other Capstone Experience:

Capstone course (RES460) 4 credit hours.

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: YEN

TO

Email: yto@missouriwestern.edu

Phone: 816-271-4548

MWSU - Bachelor of Science in Respiratory Therapy

Rationale: Missouri Western State University is proposing a Bachelor of Science in Respiratory Therapy to meet the workforce needs of Northwest Missouri and the Greater Kansas City Region. Through our Center of Excellence in Applied Healthcare Learning, we have learned that many of our region's healthcare providers need respiratory therapists (RTs). The Missouri Society for Respiratory Care validated the need for an additional 106 therapists every year through 2027. In addition, they predict a 50% retirement rate and that an additional 129 therapists will be needed to replace individuals who are retiring (see letter of support in attached supplemental materials).

Mosaic Life Care (with hospitals in St. Joseph, Albany, and Maryville), Children's Mercy Hospital in Kansas City, Liberty Hospital in Liberty, Truman Medical Center in Kansas City, and North Kansas City Hospital all expressed an unmet need for RTs (see letters of support) and a willingness to provide our new program support through clinical site placements for training. Finally, JobsEQ data shows that the nearest BS program for RT in Missouri is located at the University of Missouri 180 miles away. The report linked many jobs in the 100-mile radius and expected the need for new jobs to grow in the future.

Missouri Western has a designated statewide mission for applied learning and its established focus on health careers, with programs in Nursing, Social Work, Health Information Management, Exercise Science and Population Health, will allow us to build upon existing resources to offer the Respiratory Therapy Program. Our graduates will be distinctive due to their work with students from other health programs better preparing them for teams-based approaches in healthcare. Our strengths will also include a strong foundation in the biological and exercise sciences, using simulation technology to enhance clinical skills development, and inter-professional research experiences to support evidence-based practice in healthcare.



more than health care ... life care

Mosaic Life Care Respiratory Care Department 5325 Faraon St. St. Joseph, MO 64506

Missouri Western State University 4525 Downs Dr St. Joseph, MO 64507

Date: March 17th, 2021

To whom it may concern:

Mosaic Life Care is in support of Missouri Western State University adding a Respiratory Care program as an option for academics. The rationale for supporting the addition of the program is due to the lack of programs available in this region of the state. Many health care facilities in the region have barriers to hiring Respiratory Therapist, as there are no Respiratory Programs in the area.

In order for someone to attend a Respiratory Program from this area, people are stuck driving a minimum of 55 miles one way to attend class. Likely, their clinical rotations are roughly 90–120 mile radius of their educational facility. To alleviate their educational and clinical drive time, we would be in full support of a program at MWSU and housing a clinical rotation at our facility. I would also be in support of being on the advisory board committee and helping guide the process of building a strong reputable program.

If you need any assistance from me, I can be reached at: (816) 271-6804.

Sincerely,

Ron Spruell, MHA, RRT, RRT-NPS
Director-Pulmonary, Respiratory, & Sleep Services
Ronald.Spruell@mymlc.com



Jacklyn Gentry Ed.D., RN
Chair, Department of Nursing
Assistant Professor
Missouri Western State University

Jacklyn,

Thank you for reaching out to Liberty Hospital to gauge our interest in supporting Missouri Western's new RT program. We would welcome the opportunity to host your students and contribute to their journey of becoming Registered Respiratory Therapist's. The Kansas City market is in great demand of quality RT candidates, and I believe that this market can support students from Missouri Western. It is our practice to hire excellent candidates for our team as students when it is recognized, the quality of skill and knowledge they possess. Candidates hired will be given the opportunity to remain at Liberty after completion of their program requirements.

Thank you once again for extending this opportunity. Please do not hesitate to contact me with any questions or for any assistance you may require in starting or maintaining this program.

Stephen Brabbin, BS MBA, RRT

Director of Pulmonary and Neurology Services Liberty Hospital Liberty, MO 64068 816-792-7061 Stephen.brabbin@libertyhospital.org



2800 Clay Edwards Dr. North Kansas Clty, MO 64116-3220

> 816.691.2000 nkch.org

Dear Crystal Harris, PhD, RN,

2/22/2021

Thank you for reaching out to North Kansas City Hospital (NKCH) regarding support documentation for the BSRT program you're proposing at Missouri Western State University.

Here at North Kansas City Hospital and in the community, the need for qualified Registered Therapists has been increasing for the past eight years. Our needs are spread out between critical cares, diagnostic therapists to therapists that want to become department leaders. At this time we have several position available – prior to COVID.

The Respiratory Department at NKCH would be in a agreement to partner with the BSRT program at Missouri Western State College for their clinical experience.

Thank you,

Mark Petermeier Director - Respiratory Care and Sleep Diagnostics North Kansas City Hospital 816.691.5330

Missouri Society for Respiratory Care

Missouri Society for Respiratory Care 213 East Capitol Jefferson City, Missouri 65101 314-280-2628 Robin.Kidder@bjc.org http://www.mosrc.org/home.html



Date: January 4th, 2020

MSRC Supportive Statement of Respiratory Therapy Programs

The Missouri Society of Respiratory Care supports producing more Respiratory Therapists in the state of Missouri in areas that are underserved. There are currently eight Respiratory Therapy schools in the state of Missouri. The rationale for support of an increase in Respiratory Therapy Schools include:

- Central Missouri area Health Care Facilities such as Lake Regional, PRMC, Texas County and many others report they have barriers to hiring Respiratory Therapists, as there is not a school in their area.
- Current growth rate from the BLS shows we will need an additional 960 therapists between 2018 and 2029. That is approx. 106
 additional therapists every year. (This is growth, not related to loss).
- Current loss rate from retirement based on the AARC survey demonstrates that we will lose 1675 therapists between 2014 and 2027 (50% retirement rate). That results in 902 between 2020-2027, or 129 per year.
 - o This equates to Respiratory Therapy programs across the state will need to produce an average of 235 therapists per year to meet project needs (106 growth, 129 loss). Given that the current production rate is 114 therapists per year (three avg of the 8 program), the state will be short 124 therapists per year at the current rate.

References

- 1) AARC Resource Survey https://www.aarc.org/wp-content/uploads/2018/06/aarc-hr-study-re.pdf
- 2) BLS projections of MO RT change http://www.projectionscentral.com/Projections/LongTerm
- 3) BLS projection of RT in the US https://www.bls.gov/ooh/healthcare/respiratory-therapists.htm
- 4) Average RT MO students (2016-2018) CoARC 2019 Annual RCS Outcomes for Entry into RC Practice and SDS Certificate Programs

 *Based on 2019 Annual Report of Current S

Respectfully,

Missouri Society for Respiratory Care, Board of Directors

Missouri Western State University Budget Narrative

New/renovated space: Existing classroom spaces will be used for some classroom experiences (Exercise Science Lab, and Community Simulation Lab). Renovations for a new classroom space to enhance capacity will include high flow oxygen set-up, head wall system installation, instructional areas, and storage.

Equipment: There will be one-time purchases for simulation and instructional equipment such as clinical skills simulator (\$16000), Intubation trainers, \$1500/device, Trach overlay system (\$10000), Bedside documentation cart (\$2000), Respiratory treatment cart \$800/cart, O2 generator \$3500, Nebulizers-\$85/device, and art line arms \$600/arm. Support devices, such as transport stretchers \$4000/unit and two supply carts (\$500) will be purchased for setting up the lab. Initial costs for basic set up will be \$85000 which will be spread over year 1-2. Additional airway skills simulators will be purchased in years 3-5. Existing MWSU equipment, such as a ventilator or simulators, may be used from other programs until full capacity is reached. Recurring equipment/supplies will include o2 cylinders (\$80 rental and \$50 refill).

Consultant: A consultant will be assisting us with navigating the accreditation process and lab set up. Payment will be \$1000.

Institutional Overhead: AORC Accreditation will include \$2500 to submit a letter of intent, \$2000 for the provisional self-study, and \$2000 annually for a base program.

Tuition and Fees: At full capacity, MWSU will be admitting 24 students into the respiratory therapy program. Each year, they will enroll in 30 credit hours (15-16 cr/semester) at \$231 per credit hour. Program fees will be \$56/credit hour. This equals \$8610 per student per year. Students may begin their general studies in year 1. Student course fees will cover consumables/lab supplies. These are not included in this budget.

Salaries and Benefits: In the first year, a program director, with an annual salary of \$65000 will support the ongoing planning and recruitment for the program. An administrative assistant with an annual salary of \$31200, allocated at 20% for support in the RT program. In the second year, a second RT faculty will be hired at \$65000. Faculty teaching courses from other disciplines will not incur any additional expense due to course capacity. Benefits are calculated at 30%.

Library: We have completed a review of our library holdings and open access sources. We have strong holdings in cardio-pulmonary content. Four respiratory care journals are open access and six other journals are available through our current subscriptions. We will subscribe to the journal, *Respiratory Care* for \$600 annually when the first cohort begins in the RT program.

MWSU Bachelor of Science-Respiratory Therapy New Program Form Addendum

1. Student Preparation

- a. The applicant must have:
 - A minimum overall GPA of 2.5.
 - A Test of Essential Academic Skills (TEAS) test score of 58.7% (academic preparedness category of proficiency) or above is required.
 - Must have completed or be currently enrolled in all general studies
 - Must complete the following RT support courses earning a grade of C or higher
 - ALH 106, Medical Terminology
 - BIO 101, Principles of Biology
 - BIO 250, Anatomy and Physiology
 - BIO 251, Medical & Public Health Microbiology
 - BIO 375, Pathophysiology
 - CHE 101or CHE 111, Introductory Chemistry or General Chemistry I
 - PHL 230, 231 or 232, Ethics
 - PSY 101, General Psychology
 - PSY 240,Life Span Developmental Psychology
- b. Admission to the RT program is competitive; therefore, meeting the minimum requirements does not guarantee admission to the program.

2. Faculty Characteristics

- a. Special Faculty Requirements:
 - The Program Director (PD) will meet requirements as outlined in the Commission on Accreditation for Respiratory Care (COARC) Accreditation Standards (2015). The PD must meet the following requirements:
 - o Earned Master's degree from an accredited program
 - o Valid RRT credential or be a physician or academician (PhD or EdD)
 - Minimum of four years of experience as an RRT or physician or academician with requirements as outlined (COARC, DA2.5, p 13)
 - Minimum of two years teaching experience
 - Instructional Faculty will be qualified in the content areas that they will teach and will have a minimum of a Master's degree in related field.
 - Expectations for professional activities, special student contact, and teaching/learning innovation: One of the primary responsibilities of a faculty member involves effective teaching and student interactions through classroom activities, campus involvement, and advising. With Missouri Western's mission of

applied learning, we expect all faculty to integrate applied learning in all aspects of the program with special focus on simulation, skills verification, and clinical experiences. Faculty must be engaged in ongoing scholarship/creative activity in order to be current and competent in their areas of instruction. Faculty are encouraged to include students in research activities to prepare them to apply research in clinical practice. Through professional service, a faculty member contributes knowledge, skills, and expertise to activities designed to benefit students, the institution, the discipline/profession and the community (MWSU Faculty Evaluation Procedure, 2019).

3. Enrollment (on original form)

4. Student and Program Outcomes: The program will be following the established CoARC <u>Outcomes Thresholds</u>.

- Special Skills Specific to Program: Consistent with the Commission on Accreditation (2015) Standard DA 3.1, "The program goal is to provide graduates of the entry into respiratory care professional practice degree program with additional knowledge, skills, and attitudes in leadership, management, education, research and advanced clinical practice that will enable them to meet their current professional goals and prepare them for practice as advanced degree respiratory therapists (p. 16)."
- Performance on National Exams:
 - The three year average for achieving the National Board for Respiratory Care (NBRC) high cut passing score (set by NBRC) on the Therapist Multiple-Choice (TMC) Examination will be greater than 60% (Number of program graduates achieving the high cut score divided by the total number of graduates in each three-year reporting period).
 - 88% of graduates attempting the NBRC Clinical Simulation Exam CSE will be successful earning the Registered Respiratory Therapist credential (Threshold-80%).
- Students will perform above expected state established thresholds on general education (more than 50% socrew about the 50th percentile) & exit exams (more than 90% will be expected to reach a passing score on major field tests).
- Placement Rates: Upon graduation, 95% of graduates will be employed utilizing skills within the scope of practice of the respiratory care profession (i.e., full-time, part-time, or per-diem).

- Transfer Rates/Continuous Study: The total number of students who began and successfully completed the program (retention rate) for a three year average will be 70% or greater.
- **5. Program Accreditation**: The Missouri Western State University Bachelor of Science in Respiratory Therapy will seek accreditation through the Commission on Accreditation for Respiratory Care. The letter of intent for accreditation will submitted upon approval by the MO Department of Higher Education and Workforce Development. Program advisory committee members have been identified and a meeting will be scheduled by June 2020. We anticipate provisional accreditation by May 2021. After graduating three cohorts, we will submit application for the first accreditation (2024).

6. Program Structure:

D. Major Requirements (cont)

Course Number	Credits	Course Title
RES425	. 2	Neonatal Respiratory Care
RES 430	2	Pediatric Respiratory Care
SWK 365	3 cr	Death & Dying
RSM300	3	Philosophy in Leadership
RES460	4	Respiratory Clinical Capstone
RES470	2	Senior Seminar-NBRC Prep
PED451	3	Research in Health & Exercise

G. Unique Program Features: This Respiratory Therapy program will prepare the graduate for a credential in respiratory therapy and prepare them for advanced roles in leadership, management, education, and research. In addition, inter-professional practice will be a major focus of the program as evidenced by coursework taught from six different healthcare disciplines. This will allow students to familiarize themselves with other health disciplines and team-based approaches. Coursework will provide advanced knowledge in cardiopulmonary care with a strong foundation in the biological and exercise sciences.

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NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

Sponsoring Institution: Mis	souri Western State Univers	ity	▼
	cience in Respiratory Therap		
Degree/Certificate: BS-Bach	nelor of Science	If other, please lis	it:
Options:	· · · · · · · · · · · · · · · · · · ·		
Delivery Site(s):			
CIP Classification: 51.0908 *CIP Code can	n be cross-referenced with prog	rams offered in your region on <u>Mi</u> for link to <u>NCES CIP site</u> .	<u>OHE's program inventory</u> ,
Implementation Date		please use MM/YY date form	at.
Is this a new off-site locatio	n? No Yes		•
If yes, is the new off-site lo	cation within your instit	ution's current CBHE-app	roved service region? Yes
*If no, public institutions shot	ıld consult the comprehensi	ve review process.	_
Is this a collaborative prog	ram? Yes No	If yes, please complete the collaborati	ve programs form on page 6.
CERTIFICATIONS:			
The program is within	the institution's CBHE app	proved mission. (public institution	ns only)
The program will be of	fered within the institution	's CBHE approved service reg	ion. (public institutions only)
The program builds up	on existing programs and f	aculty expertise.	
The program does not	unnecessarily duplicate an	existing program in the geogr	aphically applicable area.
The program can be la (public institutions only)	unched with minimal expen	nse and falls within the institut	ion's current operating budget.
	AUTH	IORIZATION:	
Name/Title of Institutiona	l Officer	Signature	Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Qualifications of performance goals should be included wherever possible.

If you need more than one line of text to answer questions 1-5, please attach a Word .doc.

1. Student Preparation

Any special admissions procedures or student qualifications required for this program which
exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum,
portfolio, personal interview, etc. Please note if no special preparation will be required.

See MWSU RT New Program Addendum Student Preparation section.

• Characteristics of a specific population to be served, if applicable.

na

2. Faculty Characteristics

 Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.

Minimum MS Registered Respiratory Therapist & MO licensure (continued).

• Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.

95% of credit hours will be assigned to full time faculty.

• Expectations for professional activities, special student contact, teaching/learning innovation.

Primary responsibility will be for teaching, advisement, scholarship & service.

3. Enrollment Projections

• Student FTE majoring in program by the end of five years.

At five years, 48 Student FTE will be majoring in the program. This excludes students intending to enter (premajors).

• Percent of full time and part time enrollment by the end of five years.

100% (Jr/Sr) accepted into the program will be full time.

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
FULL TIME	6	12	24	36	48
PART TIME					
TOTAL	6	12	24	36	48

4. Student and Program Outcomes

• Number of graduates per annum at three and five years after implementation.

BSRT Graduates at year three: 10 BSRT graduates at year five year: 20

• Special skills specific to the program.

Graduates will be eligible to take the National Board of Respiratory Care (NBRC) licensure examination. (cont

• Proportion of students who will achieve licensing, certification, or registration.

88% (see addendum)

• Performance on national and/or local assessments, e.g. percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.

50% of our students will score at the 50th percentile or higher.

• Placement rates in related fields, in other fields, unemployed.

Upon graduation, 95% will be employed within the respiratory care field.

• Transfer rates, continuous study.

See addendum

5. Program Accreditation

 Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide a rationale

See addendum Program Accreditation section.

6. Program Structure

A. Total credits required for graduation: 120

B. Residency requirements, if any: 30 of the last 45 hours at MWSU

C. General education: Total credits: 42

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title
BIO101	4	Principles of Biology
BIO250	5	Human Anatomy and Physiology
CHE101 or 111	4-5	Introductory Chemistry or General Chemistry 1
PSY101	3	General Psychology
PHL230 or 231 or 232	3	Ethics, Medical Ethics, or Business Ethics
MAT	3	Mathematical Reasoning-MAT110, 111, 112, 116, 147, 165, or 167
PSY240	3	Developmental Psychology
ENG/COM	9	Written & Oral Communication
	6	Humanities in addition to Ethics
	. 3	Social Science-History Requirement
7		
	,	

D. Major requirements: Total credits: 78

Course Number	Credits	Course Title
RES 250	3	Concepts of Respiratory Therapy
RES 300	3	Cardiopulmonary Assessment
RES 310	3	Respiratory Clinical Practice I
RES 325	3	Pharmacology for the Respiratory Therapist
ALH 330	3	Intro to Epidemiology & Biostatistics
PED 304	3	Exercise Physiology
PED 400	3	Advanced Cardiovascular Physiology
ALH 320	3	Community and Public Health
RES 360	3	Respiratory Clinical Practice II
RES 315	3	Respiratory Diagnostics I
RES 400	4	Mechanical Ventilation
RES 405	3	ACLS/PALS
RES 410	- 3	Respiratory Clinical Practice III
RES 415	3	Respiratory Diagnostics II
PTA 250	1	Cardiopulmonary Rehabilitation
		(See addendum)

E. Free elective credits: $\frac{4}{\text{(sum of } C, D, and E should equal A)}}$	
F. Requirements for thesis, internship or other capstone experi-	ence: Capstone
G. Any unique features such as interdepartmental cooperation:	See addendum- Interprofessional collaboration
7. Need/Demand	
Student demand	
Market demand	
Societal need	
I hereby certify that the institution has conducted research on the feather the program will be successful.	asibility of the proposal and it is likely

On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.